

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PWE-8K Black [Chalk marker]

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.
 Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
 Telephone number : 03-3458-6281 Telefax number : 03-3450-0363

Creation Date : September 20, 2013
 Revision Date
 File No. : 010444A Rev.2.5.01.01

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
 No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements : -

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

| Chemical or generic name | CAS No. | TSCA | EINECSNo. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Carbon Black | 1333-86-4 | Registered | 2156099 | 10- 30 |
| Additives | Registered | Registered | Registered | <10 |
| Resin | Registered | Registered | Registered | <10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | <10 |

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 15.0g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting : The Products is no flammable.

Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Wipe off by dry cloth and wash with water.

: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.

: Recap after use.

: Keep out of the reach of infants.

: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.

: Do not leave the products in high temperature space.

: Recommended temperature: 0-30 C.

Incompatible products : Not available.

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| | | |
|-------|---|---|
| OSHA | 3.5mg/m ³ TWA 5 mg/m ³ TWA (respirable dust fraction), 15 mg/m ³ TWA (total dust) | Carbon Black Additive |
| ACGIH | 3.5mg/m ³ TWA ceiling 100mg/m ³ (particulate)(aerosol) 3 mg/m ³ TWA (respirable particulate) 10 mg/m ³ TWA (inhalable particulate) | Carbon Black Ethylene glycol Additive |
| EC | 3.5mg/m ³ TWA 52mg/m ³ (20ppm) TWA(skin) 104mg/m ³ (40ppm) STEL(skin) | Carbon Black Ethylene glycol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

| | |
|--------------------------|---|
| Physical state | : Liquid. |
| Color | : Black. |
| Odor | : None odor. |
| pH | : about 8.3 |
| Boiling point | : Not available. [Water/ 100 C] |
| Melting point | : <-10 C |
| Flash point | : Not applicable. [Ethylene glycol/ 111 C(CC)] |
| Autoignition temperature | : Not applicable. [Ethylene glycol/ 398 C] |
| Explosion limits | : Not applicable. [Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>] |
| Density | : about 1.1 / 25 C |
| Vapor density (air=1) | : Not available. [Ethylene glycol/ 2.1] |
| Solubility in water | : Soluble. |
| Evaporation rate | : Not available. |
| Volatile | : 81-84% |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Stability | : Stability. |
| Hazardous reactions | : Will not occur. |
| Conditions to avoid | : Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials. |
| Materials to avoid | : Not available. |
| Hazardous decomposition products | : Not available. |

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

| | | |
|-----------------|---|---|
| Ingestion LD50 | >10000mg/kg-Rat >10000mg/kg-Rat 1650mg/kg-Cat、4700mg/kg-Rat | Carbon Black Additive Ethylene glycol |
| Inhalation LC50 | >2.8mg/L(1H)-Rat | Additive |
| Skin LD50 | >3000mg/kg-Rabbit 9530uL/kg-Rabbit | Carbon Black Ethylene glycol |

Local effects

| | |
|--------------------------------|-----------------|
| Irritant;inhalation, skin | Carbon Black |
| Irritant;inhalation, skin, eye | Ethylene glycol |

Chronic toxicity and long term toxicity

Lungs may be affected by repeated or prolonged exposure at very high concentrations. Carbon Black

The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus). Ethylene glycol

Signs and Symptoms of overexposure and aggravated by exposure

| | | |
|--------------|---|---|
| Inhalation | irritation irritation,cough | Carbon Black / Additive Ethylene glycol |
| Skin contact | irritation irritation,dry | Carbon Black / Additive Ethylene glycol |
| Eye contact | mechanical irritation, discoloration of lids irritation,redness irritation | Carbon Black Ethylene glycol Additive |
| Ingestion | rash,vomiting nausea,vomiting | Additive Ethylene glycol |

Specific effects

| | |
|---------------|--------------|
| IARC Group 2B | Carbon Black |
|---------------|--------------|

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.

Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Carbon Black / Ethylene glycol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Carbon Black / Ethylene glycol

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.

The information contained in this sheet are based knowledge of the products at the data : (September 20, 2013). They are given quite sincerely.

Moreover the attention of the users is drawn on the risks possibly taken, when a product is used for other utilization than these which it is intended.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PWE-8K White [Chalk marker]

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.
Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
Telephone number : 03-3458-6281 Telefax number : 03-3450-0363

Creation Date : October 25, 2011
Revision Date : September 20, 2013
File No. : 010427A Rev.2.6.02.02

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements : -

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

| Chemical or generic name | CAS No. | TSCA | EINECSNo. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | 10- 30 |
| Silica (amorphous) | Registered | Registered | Registered | <10 |
| Additives | Registered | Registered | Registered | <10 |
| Ethyl alcohol | 64-17-5 | Registered | 2005786 | <10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | <10 |
| Resin | Registered | Registered | Polymer | <10 |
| 2-Propanol | 67-63-0 | Registered | 2006617 | <10 |

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 17.0g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting : The Products is no flammable.

Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Wipe off by dry cloth and wash with water.

: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.

: Recap after use.

: Keep out of the reach of infants.

: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.

: Do not leave the products in high temperature space.

: Recommended temperature: 0-30 C.

Incompatible products : Not available.

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| | | |
|-------|---|--|
| OSHA | 15mg/m ³ TWA (Total dust) 20mppcf TWA (<1% crystalline silica) (80mg/m ³ divided by % SiO ₂) 1000ppm(1900mg/m ³) TWA 400 ppm TWA, 500ppm STEL | Titanium dioxide Silica (amorphous) Ethyl alcohol 2-Propanol |
| ACGIH | 10mg/m ³ TWA 10mg/m ³ TWA(inhalable fraction) 3mg/m ³ TWA(respirable fraction) (no asbestos and <1% crystalline silica) 1000ppm STEL ceiling 100mg/m ³ (particulate)(aerosol) 200ppm TWA, 400ppm STEL | Titanium dioxide Silica (amorphous) Ethyl alcohol Ethylene glycol 2-Propanol |
| EC | 6mg/m ³ 1000ppm 52mg/m ³ (20ppm) TWA(skin) 104mg/m ³ (40ppm) STEL(skin) | Titanium dioxide Ethyl alcohol Ethylene glycol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

| | |
|--------------------------|--|
| Physical state | : Liquid. |
| Color | : White. |
| Odor | : None odor. |
| pH | : about 8.0 |
| Boiling point | : Not available. [Water/ 100 C] |
| Melting point | : <-10 C |
| Flash point | : Not applicable. [Ethyl alcohol/ 12.2 C(CC)] |
| Autoignition temperature | : Not applicable. [Ethyl alcohol/ 363 C] |
| Explosion limits | : Not applicable. [Lower flammable limit / 3.28% , Upper flammable limit / 19.0% <Ethyl alcohol>] |
| Density | : about 1.3 / 25 C |
| Vapor density (air=1) | : Not available. [Ethyl alcohol/ 1.59] |
| Solubility in water | : Soluble. |
| Evaporation rate | : Not available. |
| Volatile | : 65-68% |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Stability | : Stability. |
| Hazardous reactions | : Will not occur. |
| Conditions to avoid | : Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials. |
| Materials to avoid | : Not available. |
| Hazardous decomposition products | : Not available. |

11.TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

| | | |
|-----------------|---|--|
| Ingestion LD50 | >24000mg/kg-Rat 15900mg/kg-Rat 3160mg/kg-Rat 3450mg/kg-Mouse 1650mg/kg-Cat、4700mg/kg-Rat 3600mg/kg-Mouse | Titanium dioxide Additive Silica (amorphous) Ethyl alcohol Ethylene glycol 2-Propanol |
| Inhalation LC50 | 6820mg/m ³ -4H-Rat 20000ppm-10H-Rat 11100ppm-4H-Mouse | Titanium dioxide Ethyl alcohol 2-Propanol |
| Skin LD50 | 9530uL/kg-Rabbit 12800mg/kg-Rabbit | Ethylene glycol 2-Propanol |

| | | |
|---------------|--|---|
| Local effects | Irritant:inhalation, skin, eye Irritant:inhalation, eye | Ethyl alcohol / Ethylene glycol 2-Propanol |
|---------------|--|---|

Chronic toxicity and long term toxicity

The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration.

Ethyl alcohol

The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus).

Ethylene glycol

The liquid defats the skin.

2-Propanol

Signs and Symptoms of overexposure and aggravated by exposure

| | | |
|--------------|--|--|
| Inhalation | irritation,cough | Titanium dioxide / Silica (amorphous) / Ethyl alcohol / Ethylene glycol |
| | irritation irritation,nausea | Additive 2-Propanol |
| Skin contact | irritation,dry | Silica (amorphous) / Ethyl alcohol / Ethylene glycol |
| | irritation irritation,absorption | Additive 2-Propanol |
| Eye contact | irritation,redness | Titanium dioxide / Silica (amorphous) / Ethyl alcohol / Ethylene glycol |
| | irritation irritation,pain | Additive 2-Propanol |
| Ingestion | physiologically inert, intestinal obstruction fever, vomiting rash,vomiting nausea,vomiting nausea,stomach pain | Titanium dioxide Additive Ethyl alcohol Ethylene glycol 2-Propanol |

| | | |
|------------------|-------------------------------|---|
| Specific effects | IARC Group 2B IARC Group 3 | Titanium dioxide Silica (amorphous) / 2-Propanol |
|------------------|-------------------------------|---|

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.
Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethyl alcohol / Ethylene glycol / 2-Propanol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Silica (amorphous) / Ethylene glycol / 2-Propanol

0.1%over Ethyl alcohol

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.

The information contained in this sheet are based knowledge of the products at the data : (September 20, 2013). They are given quite sincerely.

Moreover the attention of the users is drawn on the risks possibly taken,

when a product is used for other utilization than these which it is intended.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PWE-8K Red [Chalk marker]

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.

Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN

Telephone number : 03-3458-6281 Telefax number : 03-3450-0363

Creation Date : October 25, 2011

Revision Date : September 20, 2013

File No. : 010428A Rev.2.6.02.02

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements : -

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

| Chemical or generic name | CAS No. | TSCA | EINECSNo. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | < 10 |
| Silica (amorphous) | Registered | Registered | Registered | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Ethyl alcohol | 64-17-5 | Registered | 2005786 | < 10 |
| Coloring agent | Registered | Registered | Registered | < 10 |
| Additives | Registered | Registered | Registered | < 10 |
| Resins | Registered | Registered | Registered | < 10 |

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 15.5g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting : The Products is no flammable.
Use extinguishing agents appropriate for surrounding fire.
Avoid inhalation of material or combustion by-products.
Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Wipe off by dry cloth and wash with water.
: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.
: Recap after use.
: Keep out of the reach of infants.
: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.
: Do not leave the products in high temperature space.
: Recommended temperature: 0-30 C.

Incompatible products : Not available.

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| | | |
|-------|--|--|
| OSHA | 15mg/m ³ TWA (Total dust) 1000ppm(1900mg/m ³) TWA 20mppcf TWA (<1% crystalline silica) (80mg/m ³ divided by % SiO ₂) | Titanium dioxide Ethyl alcohol Silica (amorphous) |
| ACGIH | 10mg/m ³ TWA ceiling 100mg/m ³ (particulate)(aerosol) 1000ppm STEL 10mg/m ³ TWA(inhalable fraction) 3mg/m ³ TWA(respirable fraction) (no asbestos and <1% crystalline silica) | Titanium dioxide Ethylene glycol Ethyl alcohol Silica (amorphous) |
| EC | 6mg/m ³ 52mg/m ³ (20ppm) EC TWA(skin), 104mg/m ³ (40ppm) EC STEL(skin) 1000ppm | Titanium dioxide Ethylene glycol Ethyl alcohol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

| | |
|--------------------------|---|
| Physical state | : Liquid. |
| Color | : Red. |
| Odor | : None odor. |
| pH | : about 8.3 |
| Boiling point | : Not available. [Water/ 100 C] |
| Melting point | : <-10 C |
| Flash point | : Not applicable. [Ethylene glycol/ 111 C(CC)] |
| Autoignition temperature | : Not applicable. [Ethylene glycol/ 398 C] |
| Explosion limits | : Not applicable. [Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>] |
| Density | : about 1.1 / 25 C |
| Vapor density (air=1) | : Not available. [Ethylene glycol/ 2.1] |
| Solubility in water | : Soluble. |
| Evaporation rate | : Not available. |
| Volatile | : 76-79% |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Stability | : Stability. |
| Hazardous reactions | : Will not occur. |
| Conditions to avoid | : Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials. |
| Materials to avoid | : Not available. |
| Hazardous decomposition products | : Not available. |

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

| | | |
|-----------------|--|--|
| Ingestion LD50 | >24000mg/kg-Rat 4700mg/kg-Rat 3450mg/kg-Mouse 3160mg/kg-Rat | Titanium dioxide Ethylene glycol Ethyl alcohol Silica (amorphous) |
| Inhalation LC50 | 6820mg/m ³ -4H-Rat 20000ppm-10H-Rat | Titanium dioxide Ethyl alcohol |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |

Local effects Irritant;inhalation, skin, eye Ethylene glycol / Ethyl alcohol

Chronic toxicity and long term toxicity

The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus). Ethylene glycol

The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration. Ethyl alcohol

Signs and Symptoms of overexposure and aggravated by exposure

| | | |
|--------------|---|--|
| Inhalation | irritation,cough irritation headache,nausea | Titanium dioxide / Ethylene glycol / Ethyl alcohol / Silica (amorphous) Coloring agent Resin |
| Skin contact | redness,swelling of skin irritation irritation,dry | Coloring agent Resin Ethylene glycol / Ethyl alcohol / Silica (amorphous) |
| Eye contact | irritation irritation,redness | Resin Titanium dioxide / Ethylene glycol / Ethyl alcohol / Silica (amorphous) |
| Ingestion | physiologically inert, intestinal obstruction nausea,vomiting digestive discomfort nausea,vomiting rash,vomiting | Titanium dioxide Coloring agent Resin Ethylene glycol Ethyl alcohol |

Specific effects IARC Group 3 Silica (amorphous)
IARC Group 2B Titanium dioxide

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.
Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol / Ethyl alcohol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol / Silica (amorphous)

0.1%over Ethyl alcohol

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.

The information contained in this sheet are based knowledge of the products at the data : (September 20, 2013). They are given quite sincerely.

Moreover the attention of the users is drawn on the risks possibly taken, when a product is used for other utilization than these which it is intended.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PWE-8K Light blue [Chalk marker]

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.

Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN

Telephone number : 03-3458-6281 Telefax number : 03-3450-0363

Creation Date : October 25, 2011

Revision Date : September 20, 2013

File No. : 010429A Rev.2.6.02.02

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements : -

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

| Chemical or generic name | CAS No. | TSCA | EINECSNo. | Concentration range (wt%) |
|--------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | 10- 30 |
| Silica (amorphous) | Registered | Registered | Registered | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Ethyl alcohol | 64-17-5 | Registered | 2005786 | < 10 |
| Additives | Registered | Registered | Registered | < 10 |
| Resins | Registered | Registered | Registered | < 10 |
| Coloring agent | Registered | Registered | Registered | < 1 |

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 16.6g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting : The Products is no flammable.

Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Wipe off by dry cloth and wash with water.

: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.

: Recap after use.

: Keep out of the reach of infants.

: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.

: Do not leave the products in high temperature space.

: Recommended temperature: 0-30 C.

Incompatible products : Not available.

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| | | |
|-------|---|--|
| OSHA | 15mg/m3 TWA (Total dust) 20mppcf TWA (<1% crystalline silica) (80mg/m3 divided by % SiO2) 1000ppm(1900mg/m3) TWA 5mg/m3(Respirable fraction), 15mg/m3(Total dust) [Nuisance Dust] | Titanium dioxide Silica (amorphous) Ethyl alcohol Coloring agent |
| ACGIH | 10mg/m3 TWA ceiling 100mg/m3 (particulate)(aerosol) 10mg/m3 TWA(inhalable fraction) 3mg/m3 TWA(respirable fraction) (no asbestos and <1% crystalline silica) 1000ppm STEL 10mg/m3 TWA | Titanium dioxide Ethylene glycol Silica (amorphous) Ethyl alcohol Coloring agent |
| EC | 6mg/m3 52mg/m3(20ppm) EC TWA(skin) 104mg/m3(40ppm) EC STEL(skin) 1000ppm | Titanium dioxide Ethylene glycol Ethyl alcohol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

| | |
|--------------------------|---|
| Physical state | : Liquid. |
| Color | : Light blue. |
| Odor | : None odor. |
| pH | : about 8.0 |
| Boiling point | : Not available. [Water/ 100 C] |
| Melting point | : <-10 C |
| Flash point | : Not applicable. [Ethylene glycol/ 111 C(CC)] |
| Autoignition temperature | : Not applicable. [Ethylene glycol/ 398 C] |
| Explosion limits | : Not applicable. [Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>] |
| Density | : about 1.2 / 25 C |
| Vapor density (air=1) | : Not available. [Ethylene glycol/ 2.1] |
| Solubility in water | : Soluble. |
| Evaporation rate | : Not available. |
| Volatile | : 70-73% |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Stability | : Stability. |
| Hazardous reactions | : Will not occur. |
| Conditions to avoid | : Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials. |
| Materials to avoid | : Not available. |
| Hazardous decomposition products | : Not available. |

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

| | | |
|-----------------|--|--|
| Ingestion LD50 | >24000mg/kg-Rat 4700mg/kg-Rat 3160mg/kg-Rat 3450mg/kg-Mouse >5000mg/kg-Rat | Titanium dioxide Ethylene glycol Silica (amorphous) Ethyl alcohol Coloring agent |
| Inhalation LC50 | 6820mg/m ³ -4H-Rat 20000ppm-10H-Rat | Titanium dioxide Ethyl alcohol |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |

Local effects Irritant:inhalation, skin, eye Ethylene glycol / Ethyl alcohol

Chronic toxicity and long term toxicity

The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus). Ethylene glycol

The liquid defats the skin. The substance may have effects on the upper respiratory tract and central nervous system, resulting in irritation, headache, fatigue and lack of concentration. Ethyl alcohol

Signs and Symptoms of overexposure and aggravated by exposure

| | | |
|--------------|--|--|
| Inhalation | irritation,cough | Titanium dioxide / Ethylene glycol / Silica (amorphous) / Ethyl alcohol |
| | irritation | Coloring agent |
| Skin contact | irritation,dry | Ethylene glycol / Silica (amorphous) / Ethyl alcohol |
| Eye contact | irritation,redness | Titanium dioxide / Ethylene glycol / Silica (amorphous) / Ethyl alcohol |
| | irritation | Coloring agent |
| Ingestion | physiologically inert, intestinal obstruction nausea,vomiting fever,gastrointestinal disturbances rash,vomiting gastric disturbances | Titanium dioxide Ethylene glycol Additive Ethyl alcohol Coloring agent |

Specific effects IARC Group 2B Titanium dioxide
IARC Group 3 Silica (amorphous)

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.
Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol / Ethyl alcohol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol / Silica (amorphous)

0.1%over Ethyl alcohol

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.

The information contained in this sheet are based knowledge of the products at the data : (September 20, 2013). They are given quite sincerely.

Moreover the attention of the users is drawn on the risks possibly taken,

when a product is used for other utilization than these which it is intended.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PWE-8K Violet [Chalk marker]

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.

Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN

Telephone number : 03-3458-6281 Telefax number : 03-3450-0363

Creation Date : October 25, 2011

Revision Date : September 20, 2013

File No. : 010430A Rev.2.6.01.02

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements : -

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

| Chemical or generic name | CAS No. | TSCA | EINECSNo. | Concentration range (wt%) |
|-----------------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Resins | Registered | Registered | Registered | 10- 30 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | < 10 |
| Silica (amorphous) | Registered | Registered | Registered | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Additives | Registered | Registered | Registered | < 10 |
| Coloring agents | Registered | Registered | Registered | < 10 |
| Polyoxyethylene nonylphenyl ether | 9016-45-9 | Registered | Registered | < 1 |

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 15.2g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting : The Products is no flammable.

Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Wipe off by dry cloth and wash with water.

: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.

: Recap after use.

: Keep out of the reach of infants.

: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.

: Do not leave the products in high temperature space.

: Recommended temperature: 0-30 C.

Incompatible products : Not available.

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| | | |
|-------|--|---|
| OSHA | 15mg/m ³ TWA (Total dust) 20mppcf TWA (<1% crystalline silica) (80mg/m ³ divided by % SiO ₂) | Titanium dioxide Silica (amorphous) |
| ACGIH | 10mg/m ³ TWA ceiling 100mg/m ³ (particulate)(aerosol) 10mg/m ³ TWA(inhalable fraction) 3mg/m ³ TWA(respirable fraction) (no asbestos and <1% crystalline silica) | Titanium dioxide Ethylene glycol Silica (amorphous) |
| EC | 10mg/m ³ TWA 6mg/m ³ 52mg/m ³ (20ppm) EC TWA(skin), 104mg/m ³ (40ppm) EC STEL(skin) | Coloring agent Titanium dioxide Ethylene glycol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

| | |
|--------------------------|--|
| Physical state | : Liquid. |
| Color | : Violet. |
| Odor | : None odor. |
| pH | : about 8.3 |
| Boiling point | : Not available. [Water/ 100 C] |
| Melting point | : <-10 C |
| Flash point | : Not applicable. [Ethylene glycol/ 111 C(CC)] |
| Autoignition temperature | : Not applicable. [Ethylene glycol/ 398 C] |
| Explosion limits | : Not applicable. |
| | [Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>] |
| Density | : about 1.1 / 25 C |
| Vapor density (air=1) | : Not available. [Ethylene glycol/ 2.1] |
| Solubility in water | : Soluble. |
| Evaporation rate | : Not available. |
| Volatile | : 68-71% |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Stability | : Stability. |
| Hazardous reactions | : Will not occur. |
| Conditions to avoid | : Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials. |
| Materials to avoid | : Not available. |
| Hazardous decomposition products | : Not available. |

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

| | | |
|-----------------|--|---|
| Ingestion LD50 | 1000mg/kg-Mouse >24000mg/kg-Rat 4700mg/kg-Rat 3160mg/kg-Rat 2950mg/kg-Mouse 1310mg/kg-Rat | Resin Titanium dioxide Ethylene glycol Silica (amorphous) Coloring agent Polyoxyethylene nonylphenyl ether |
| Inhalation LC50 | 6820mg/m ³ -4H-Rat | Titanium dioxide |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |

| | | |
|---------------|--|--|
| Local effects | Irritant;inhalation, skin, eye Irritant;eye | Ethylene glycol Polyoxyethylene nonylphenyl ether |
|---------------|--|--|

Chronic toxicity and long term toxicity

| | |
|--|-----------------|
| The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus). | Ethylene glycol |
|--|-----------------|

Signs and Symptoms of overexposure and aggravated by exposure

| | | |
|--------------|---|---|
| Inhalation | irritation,cough irritation | Resin / Titanium dioxide / Ethylene glycol / Silica (amorphous) Coloring agent / Polyoxyethylene nonylphenyl ether |
| Skin contact | mechanical abrasion,irritation irritation irritation,dry burns,corrosive | Resin Polyoxyethylene nonylphenyl ether Ethylene glycol / Silica (amorphous) Coloring agent |
| Eye contact | irritation irritation,redness irritation,eye damage | Resin Titanium dioxide / Ethylene glycol / Silica (amorphous) Polyoxyethylene nonylphenyl ether |
| Ingestion | physiologically inert, intestinal obstruction nausea,vomiting digestive disorders,diarrhea | Titanium dioxide Ethylene glycol / Coloring agent Polyoxyethylene nonylphenyl ether |

| | | |
|------------------|-------------------------------|--|
| Specific effects | IARC Group 3 IARC Group 2B | Resin / Silica (amorphous) Titanium dioxide |
|------------------|-------------------------------|--|

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.
Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol / Silica (amorphous)

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.

The information contained in this sheet are based knowledge of the products at the data : (September 20, 2013). They are given quite sincerely.

Moreover the attention of the users is drawn on the risks possibly taken, when a product is used for other utilization than these which it is intended.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PWE-8K Fluorescent yellow [Chalk marker]

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.

Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN

Telephone number : 03-3458-6281 Telefax number : 03-3450-0363

Creation Date : October 25, 2011

Revision Date : September 20, 2013

File No. : 010431A Rev.2.6.01.02

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements : -

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

| Chemical or generic name | CAS No. | TSCA | EINECSNo. | Concentration range (wt%) |
|-----------------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Resins | Registered | Registered | Registered | 10- 30 |
| Additives | Registered | Registered | Registered | 10- 30 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | < 10 |
| Silica (amorphous) | Registered | Registered | Registered | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Coloring agent | Registered | Registered | Registered | < 10 |
| Polyoxyethylene nonylphenyl ether | 9016-45-9 | Registered | Registered | < 1 |

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 12.4g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting : The Products is no flammable.

Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Wipe off by dry cloth and wash with water.

: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.

: Recap after use.

: Keep out of the reach of infants.

: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.

: Do not leave the products in high temperature space.

: Recommended temperature: 0-30 C.

Incompatible products : Not available.

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| | | |
|-------|--|---|
| OSHA | 15mg/m ³ TWA (Total dust) 20mppcf TWA (<1% crystalline silica) (80mg/m ³ divided by % SiO ₂) | Titanium dioxide Silica (amorphous) |
| ACGIH | 10mg/m ³ TWA ceiling 100mg/m ³ (particulate)(aerosol) 10mg/m ³ TWA(inhalable fraction) 3mg/m ³ TWA(respirable fraction) (no asbestos and <1% crystalline silica) | Titanium dioxide Ethylene glycol Silica (amorphous) |
| EC | 6mg/m ³ 52mg/m ³ (20ppm) EC TWA(skin), 104mg/m ³ (40ppm) EC STEL(skin) | Titanium dioxide Ethylene glycol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

| | |
|--------------------------|---|
| Physical state | : Liquid. |
| Color | : Fluorescent yellow. |
| Odor | : None odor. |
| pH | : about 8.0 |
| Boiling point | : Not available. [Water/ 100 C] |
| Melting point | : <-10 C |
| Flash point | : Not applicable. [Ethylene glycol/ 111 C(CC)] |
| Autoignition temperature | : Not applicable. [Ethylene glycol/ 398 C] |
| Explosion limits | : Not applicable. [Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>] |
| Density | : about 1.2 / 25 C |
| Vapor density (air=1) | : Not available. [Ethylene glycol/ 2.1] |
| Solubility in water | : Soluble. |
| Evaporation rate | : Not available. |
| Volatile | : 55-58% |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Stability | : Stability. |
| Hazardous reactions | : Will not occur. |
| Conditions to avoid | : Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials. |
| Materials to avoid | : Not available. |
| Hazardous decomposition products | : Not available. |

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

| | | |
|-----------------|---|---|
| Ingestion LD50 | 1000mg/kg-Mouse >24000mg/kg-Rat 4700mg/kg-Rat 3160mg/kg-Rat 550mg/kg-Rat 1310mg/kg-Rat | Resin Titanium dioxide Ethylene glycol Silica (amorphous) Coloring agent Polyoxyethylene nonylphenyl ether |
| Inhalation LC50 | 6820mg/m ³ -4H-Rat | Titanium dioxide |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |

| | | |
|---------------|--|--|
| Local effects | Irritant;inhalation, skin, eye Irritant;eye | Ethylene glycol Polyoxyethylene nonylphenyl ether |
|---------------|--|--|

Chronic toxicity and long term toxicity

| | |
|--|-----------------|
| The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus). | Ethylene glycol |
|--|-----------------|

Signs and Symptoms of overexposure and aggravated by exposure

| | | |
|------------------|---|--|
| Inhalation | irritation,cough irritation | Resin / Titanium dioxide / Ethylene glycol / Silica (amorphous) Polyoxyethylene nonylphenyl ether |
| Skin contact | mechanical abrasion,irritation irritation irritation,dry | Resin Polyoxyethylene nonylphenyl ether Ethylene glycol / Silica (amorphous) |
| Eye contact | irritation irritation,redness irritation,eye damage | Resin Titanium dioxide / Ethylene glycol / Silica (amorphous) Polyoxyethylene nonylphenyl ether |
| Ingestion | physiologically inert, intestinal obstruction nausea,vomiting digestive disorders,diarrhea | Titanium dioxide Ethylene glycol Polyoxyethylene nonylphenyl ether |
| Specific effects | IARC Group 3 IARC Group 2B | Resin / Silica (amorphous) Titanium dioxide |

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.
Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol / Silica (amorphous)

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.

The information contained in this sheet are based knowledge of the products at the data : (September 20, 2013). They are given quite sincerely.

Moreover the attention of the users is drawn on the risks possibly taken, when a product is used for other utilization than these which it is intended.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PWE-8K Fluorescent orange [Chalk marker]

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.

Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN

Telephone number : 03-3458-6281 Telefax number : 03-3450-0363

Creation Date : October 25, 2011

Revision Date : September 20, 2013

File No. : 010432A Rev.2.6.01.02

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements : -

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

| Chemical or generic name | CAS No. | TSCA | EINECSNo. | Concentration range (wt%) |
|-----------------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Resins | Registered | Registered | Registered | 10- 30 |
| Additives | Registered | Registered | Registered | 10- 30 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | < 10 |
| Silica (amorphous) | Registered | Registered | Registered | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Coloring agents | Registered | Registered | Registered | < 10 |
| Polyoxyethylene nonylphenyl ether | 9016-45-9 | Registered | Registered | < 1 |

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 12.4g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting : The Products is no flammable.

Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Wipe off by dry cloth and wash with water.

: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.

: Recap after use.

: Keep out of the reach of infants.

: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.

: Do not leave the products in high temperature space.

: Recommended temperature: 0-30 C.

Incompatible products : Not available.

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| | | |
|-------|--|---|
| OSHA | 15mg/m ³ TWA (Total dust) 20mppcf TWA (<1% crystalline silica) (80mg/m ³ divided by % SiO ₂) | Titanium dioxide Silica (amorphous) |
| ACGIH | 10mg/m ³ TWA ceiling 100mg/m ³ (particulate)(aerosol) 10mg/m ³ TWA(inhalable fraction) 3mg/m ³ TWA(respirable fraction) (no asbestos and <1% crystalline silica) | Titanium dioxide Ethylene glycol Silica (amorphous) |
| EC | 6mg/m ³ 52mg/m ³ (20ppm) EC TWA(skin), 104mg/m ³ (40ppm) EC STEL(skin) | Titanium dioxide Ethylene glycol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

| | |
|--------------------------|---|
| Physical state | : Liquid. |
| Color | : Fluorescent orange. |
| Odor | : None odor. |
| pH | : about 8.0 |
| Boiling point | : Not available. [Water/ 100 C] |
| Melting point | : <-10 C |
| Flash point | : Not applicable. [Ethylene glycol/ 111 C(CC)] |
| Autoignition temperature | : Not applicable. [Ethylene glycol/ 398 C] |
| Explosion limits | : Not applicable. [Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>] |
| Density | : about 1.2 / 25 C |
| Vapor density (air=1) | : Not available. [Ethylene glycol/ 2.1] |
| Solubility in water | : Soluble. |
| Evaporation rate | : Not available. |
| Volatile | : 55-58% |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Stability | : Stability. |
| Hazardous reactions | : Will not occur. |
| Conditions to avoid | : Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials. |
| Materials to avoid | : Not available. |
| Hazardous decomposition products | : Not available. |

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

| | | |
|-----------------|--|---|
| Ingestion LD50 | 1000mg/kg-Mouse >24000mg/kg-Rat 4700mg/kg-Rat 3160mg/kg-Rat 2950mg/kg-Mouse 550mg/kg-Rat 1310mg/kg-Rat | Resin Titanium dioxide Ethylene glycol Silica (amorphous) Coloring agent Polyoxyethylene nonylphenyl ether |
| Inhalation LC50 | 6820mg/m ³ -4H-Rat | Titanium dioxide |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |

| | | |
|---------------|--|--|
| Local effects | Irritant:inhalation, skin, eye Irritant:eye | Ethylene glycol Polyoxyethylene nonylphenyl ether |
|---------------|--|--|

Chronic toxicity and long term toxicity

| | |
|--|-----------------|
| The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus). | Ethylene glycol |
|--|-----------------|

Signs and Symptoms of overexposure and aggravated by exposure

| | | |
|--------------|---|--|
| Inhalation | irritation,cough irritation | Resin / Titanium dioxide / Ethylene glycol / Silica (amorphous) Polyoxyethylene nonylphenyl ether |
| Skin contact | mechanical abrasion,irritation irritation burns,corrosive irritation,dry | Resin Polyoxyethylene nonylphenyl ether Coloring agent Ethylene glycol / Silica (amorphous) |
| Eye contact | irritation irritation,redness irritation,eye damage | Resin Titanium dioxide / Ethylene glycol / Silica (amorphous) Polyoxyethylene nonylphenyl ether |
| Ingestion | physiologically inert, intestinal obstruction nausea,vomiting digestive disorders,diarrhea | Titanium dioxide Ethylene glycol / Coloring agent Polyoxyethylene nonylphenyl ether |

| | | |
|------------------|-------------------------------|--|
| Specific effects | IARC Group 3 IARC Group 2B | Resin / Silica (amorphous) Titanium dioxide |
|------------------|-------------------------------|--|

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.
Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol / Silica (amorphous)

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.

The information contained in this sheet are based knowledge of the products at the data : (September 20, 2013). They are given quite sincerely.

Moreover the attention of the users is drawn on the risks possibly taken, when a product is used for other utilization than these which it is intended.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PWE-8K Fluorescent green [Chalk marker]

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.

Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN

Telephone number : 03-3458-6281 Telefax number : 03-3450-0363

Creation Date : October 25, 2011

Revision Date : September 20, 2013

File No. : 010433A Rev.2.6.01.02

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements : -

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

| Chemical or generic name | CAS No. | TSCA | EINECSNo. | Concentration range (wt%) |
|-----------------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Resins | Registered | Registered | Registered | 10- 30 |
| Additives | Registered | Registered | Registered | 10- 30 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | < 10 |
| Silica (amorphous) | Registered | Registered | Registered | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Coloring agents | Registered | Registered | Registered | < 10 |
| Polyoxyethylene nonylphenyl ether | 9016-45-9 | Registered | Registered | < 1 |

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 12.4g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting : The Products is no flammable.

Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Wipe off by dry cloth and wash with water.

: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.

: Recap after use.

: Keep out of the reach of infants.

: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.

: Do not leave the products in high temperature space.

: Recommended temperature: 0-30 C.

Incompatible products : Not available.

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| | | |
|-------|---|---|
| OSHA | 15mg/m3 TWA (Total dust) 20mppcf TWA (<1% crystalline silica) (80mg/m3 divided by % SiO2) 5mg/m3(Respirable fraction) 15mg/m3(Total dust) [Nuisance Dust] | Titanium dioxide Silica (amorphous) Coloring agent |
| ACGIH | 10mg/m3 TWA ceiling 100mg/m3 (particulate)(aerosol) 10mg/m3 TWA(inhalable fraction) 3mg/m3 TWA(respirable fraction) (no asbestos and <1% crystalline silica) 10mg/m3 TWA | Titanium dioxide Ethylene glycol Silica (amorphous) Coloring agent |
| EC | 6mg/m3 52mg/m3(20ppm) EC TWA(skin), 104mg/m3(40ppm) EC STEL(skin) | Titanium dioxide Ethylene glycol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

| | |
|--------------------------|---|
| Physical state | : Liquid. |
| Color | : Fluorescent green. |
| Odor | : None odor. |
| pH | : about 8.0 |
| Boiling point | : Not available. [Water/ 100 C] |
| Melting point | : <-10 C |
| Flash point | : Not applicable. [Ethylene glycol/ 111 C(CC)] |
| Autoignition temperature | : Not applicable. [Ethylene glycol/ 398 C] |
| Explosion limits | : Not applicable. [Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>] |
| Density | : about 1.2 / 25 C |
| Vapor density (air=1) | : Not available. [Ethylene glycol/ 2.1] |
| Solubility in water | : Soluble. |
| Evaporation rate | : Not available. |
| Volatile | : 56-59% |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Stability | : Stability. |
| Hazardous reactions | : Will not occur. |
| Conditions to avoid | : Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials. |
| Materials to avoid | : Not available. |
| Hazardous decomposition products | : Not available. |

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

| | | |
|-----------------|---|---|
| Ingestion LD50 | 1000mg/kg-Mouse >24000mg/kg-Rat 4700mg/kg-Rat 3160mg/kg-Rat 550mg/kg-Rat >5000mg/kg-Rat 1310mg/kg-Rat | Resin Titanium dioxide Ethylene glycol Silica (amorphous) Coloring agent Polyoxyethylene nonylphenyl ether |
| Inhalation LC50 | 6820mg/m ³ -4H-Rat | Titanium dioxide |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |

| | | |
|---------------|--|--|
| Local effects | Irritant:inhalation, skin, eye Irritant:eye | Ethylene glycol Polyoxyethylene nonylphenyl ether |
|---------------|--|--|

Chronic toxicity and long term toxicity

| | |
|--|-----------------|
| The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus). | Ethylene glycol |
|--|-----------------|

Signs and Symptoms of overexposure and aggravated by exposure

| | | |
|------------------|---|---|
| Inhalation | irritation,cough irritation | Titanium dioxide / Resin / Ethylene glycol / Silica (amorphous) Coloring agent / Polyoxyethylene nonylphenyl ether |
| Skin contact | mechanical abrasion,irritation irritation irritation,dry | Resin Polyoxyethylene nonylphenyl ether Ethylene glycol / Silica (amorphous) |
| Eye contact | irritation irritation,redness irritation,eye damage | Resin / Coloring agent Titanium dioxide / Ethylene glycol / Silica (amorphous) Polyoxyethylene nonylphenyl ether |
| Ingestion | physiologically inert, intestinal obstruction digestive discomfort nausea,vomiting gastric disturbances digestive disorders,diarrhea | Titanium dioxide Resin Ethylene glycol Coloring agent Polyoxyethylene nonylphenyl ether |
| Specific effects | IARC Group 3 IARC Group 2B | Resin / Silica (amorphous) Titanium dioxide |

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.
Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol / Silica (amorphous)

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.

The information contained in this sheet are based knowledge of the products at the data : (September 20, 2013). They are given quite sincerely.

Moreover the attention of the users is drawn on the risks possibly taken, when a product is used for other utilization than these which it is intended.

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PWE-8K Fluorescent pink [Chalk marker]

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.

Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN

Telephone number : 03-3458-6281 Telefax number : 03-3450-0363

Creation Date : October 25, 2011

Revision Date : September 20, 2013

File No. : 010434A Rev.2.6.01.02

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC or 1999/45/EC

Label elements : -

Other hazards : Not available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a mixture : Mixture

Chemical nature: Component parts : Ink

| Chemical or generic name | CAS No. | TSCA | EINECSNo. | Concentration range (wt%) |
|-----------------------------------|------------|------------|------------|---------------------------|
| Water | 7732-18-5 | Registered | 2317912 | 50- 80 |
| Resins | Registered | Registered | Registered | 10- 30 |
| Additives | Registered | Registered | Registered | 10- 30 |
| Titanium dioxide | 13463-67-7 | Registered | 2366755 | < 10 |
| Silica (amorphous) | Registered | Registered | Registered | < 10 |
| Ethylene glycol | 107-21-1 | Registered | 2034733 | < 10 |
| Polyoxyethylene nonylphenyl ether | 9016-45-9 | Registered | Registered | < 1 |
| Coloring agent | Registered | Registered | Registered | < 1 |

Other parts : Other parts are excluded from 'chemical substances'.

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of product : about 12.5g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting : The Products is no flammable.

Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Wipe off by dry cloth and wash with water.

: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.

: Recap after use.

: Keep out of the reach of infants.

: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.

: Do not leave the products in high temperature space.

: Recommended temperature: 0-30 C.

Incompatible products : Not available.

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

| | | |
|-------|--|---|
| OSHA | 15mg/m3 TWA (Total dust) 20mppcf TWA (<1% crystalline silica) (80mg/m3 divided by % SiO2) | Titanium dioxide Silica (amorphous) |
| ACGIH | 10mg/m3 TWA ceiling 100mg/m3 (particulate)(aerosol) 10mg/m3 TWA(inhalable fraction) 3mg/m3 TWA(respirable fraction) (no asbestos and <1% crystalline silica) | Titanium dioxide Ethylene glycol Silica (amorphous) |
| EC | 10mg/m3 TWA 6mg/m3 52mg/m3(20ppm) EC TWA(skin), 104mg/m3(40ppm) EC STEL(skin) | Coloring agent Titanium dioxide Ethylene glycol |

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

| | |
|--------------------------|---|
| Physical state | : Liquid. |
| Color | : Fluorescent pink. |
| Odor | : None odor. |
| pH | : about 8.0 |
| Boiling point | : Not available. [Water/ 100 C] |
| Melting point | : <-10 C |
| Flash point | : Not applicable. [Ethylene glycol/ 111 C(CC)] |
| Autoignition temperature | : Not applicable. [Ethylene glycol/ 398 C] |
| Explosion limits | : Not applicable. [Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>] |
| Density | : about 1.2 / 25 C |
| Vapor density (air=1) | : Not available. [Ethylene glycol/ 2.1] |
| Solubility in water | : Soluble. |
| Evaporation rate | : Not available. |
| Volatile | : 55-58% |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Stability | : Stability. |
| Hazardous reactions | : Will not occur. |
| Conditions to avoid | : Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials. |
| Materials to avoid | : Not available. |
| Hazardous decomposition products | : Not available. |

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

| | | |
|-----------------|--|---|
| Ingestion LD50 | 1000mg/kg-Mouse >24000mg/kg-Rat 4700mg/kg-Rat 3160mg/kg-Rat ≥ 5000mg/kg-Rat 1310mg/kg-Rat | Resin Titanium dioxide Ethylene glycol Silica (amorphous) Coloring agent Polyoxyethylene nonylphenyl ether |
| Inhalation LC50 | 6820mg/m ³ -4H-Rat | Titanium dioxide |
| Skin LD50 | 9530uL/kg-Rabbit | Ethylene glycol |

| | | |
|---------------|--|--|
| Local effects | Irritant;inhalation, skin, eye Irritant;eye | Ethylene glycol Polyoxyethylene nonylphenyl ether |
|---------------|--|--|

Chronic toxicity and long term toxicity

| | |
|--|-----------------|
| The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus). | Ethylene glycol |
|--|-----------------|

Signs and Symptoms of overexposure and aggravated by exposure

| | | |
|--------------|---|---|
| Inhalation | irritation,cough irritation | Resin / Titanium dioxide / Ethylene glycol / Silica (amorphous) Coloring agent / Polyoxyethylene nonylphenyl ether |
| Skin contact | mechanical abrasion,irritation irritation irritation,dry | Resin Polyoxyethylene nonylphenyl ether Ethylene glycol / Silica (amorphous) |
| Eye contact | irritation irritation,redness irritation,eye damage | Resin Titanium dioxide / Ethylene glycol / Silica (amorphous) Polyoxyethylene nonylphenyl ether |
| Ingestion | physiologically inert, intestinal obstruction nausea,vomiting digestive disorders,diarrhea | Titanium dioxide Ethylene glycol Polyoxyethylene nonylphenyl ether |

| | | |
|------------------|-------------------------------|--|
| Specific effects | IARC Group 3 IARC Group 2B | Resin / Silica (amorphous) Titanium dioxide |
|------------------|-------------------------------|--|

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.
Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Titanium dioxide / Ethylene glycol

EU labeling : Not restricted.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over Ethylene glycol / Silica (amorphous)

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

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